PATENT COOPERATION TOTALY

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see form PCT/ISA/220		INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)
		Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)
applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER See paragraph 2 belo	W
nternational application No. PCT/EP2004/013138	International filing date 18.11.2004	(day/month/year)	Priority date (day/month/year) 05.12.2003
nternational Patent Classification (IPC) of G03F7/031	both national classification	n and IPC	
Applicant KODAK POLYCHROME GRAPH	IICS GMBH		
1. This opinion contains indica	tions relating to the f	ollowing items:	
Box No. I Basis of the Box No. II Priority Box No. III Non-establis Box No. IV Lack of unity Box No. V Reasoned s applicability Box No. VI Certain doc Box No. VII Certain defe Box No. VIII Certain obs 7. FURTHER ACTION If a demand for international written opinion of the Internat the applicant chooses an Aut International Bureau under R will not be so considered.	hment of opinion with ray of invention tatement under Rule 43 citations and explanation ects in the international ervations on the international Preliminary Example 166.1 bis(b) that written above considered to be	egard to novelty, inversibles 1(a)(i) with regard from supporting such supplication ational application is made, this opinion lining Authority ("IPEA" and en opinions of this Interpretation of the actions of the persistence of the persistenc	will usually be considered to be a "). However, this does not apply where the chosen IPEA has notifed the ernational Searching Authority the IPEA, the applicant is invited to dments, before the expiration of three tion of 22 months from the priority date,
Box No. I Basis of the Box No. II Priority Box No. III Non-establis Box No. IV Lack of unity Box No. V Reasoned s applicability Box No. VI Certain doc Box No. VII Certain defermance Box No. VIII Certain obs 7. FURTHER ACTION If a demand for international written opinion of the International Bureau under R will not be so considered. If this opinion is, as provided submit to the IPEA a written months from the date of mai	hment of opinion with ray of invention tatement under Rule 43 citations and explanation under some cited exts in the international ervations on the international Preliminary Example 166.1 bis(b) that writt above, considered to be reply together, where a ling of Form PCT/ISA/220.	egard to novelty, inversibles 1(a)(i) with regard from supporting such supplication ational application in is made, this opinion ining Authority ("IPEA and en opinions of this Interpreparate, with amenication or before the expiration of the expir	will usually be considered to be a "). However, this does not apply where the chosen IPEA has notifed the ernational Searching Authority the IPEA, the applicant is invited to

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10/580357; IAP9 Rec'd PCT/PTO 23 MAY 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/013138

_	Box No	. I Basis of the opinion
1.	the land	pard to the language , this opinion has been established on the basis of the international application in uage in which it was filed, unless otherwise indicated under this item.
	☐ Thi	s opinion has been established on the basis of a translation from the original language into the following guage, which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).
2.	With re-	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	at of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
	h	an addition, in the case that more than one version or copy of a sequence listing and/or table relating there as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.
	4. Addit	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/013138

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

1-20

Inventive step (IS)

Yes: Claims

Claims No:

1-20

Industrial applicability (IA)

Yes: Claims

1-20

Claims No:

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

International application No.

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Re Item V

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Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US 2003/0186165 A

D2: DD 287 796 A

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-20 does not involve an inventive step in the sense of Article 33(3) PCT.

US 2003/0186165 A (D1), which is considered as the closest state of the art, discloses a radiation-sensitive composition for producing a lithographic printing plate precursor (see page 9, Table 2, example 8), which composition comprises:

- (a) a photopolymerizable compound (see component C in Table 2) with ethylenically unsaturated groups accessible to a free-radical polymerization, wherein the photopolymerizable compound has a molecular weight of 3,000 or less and can be obtained by reacting a diisocyanate (1 mole of hexamethylene diisocyanate) with (i) an ethylenically unsaturated compound with a hydroxy group (1 mole of 2-hydroxyethyl methacrylate), and at the same time (ii) a saturated organic compound with a NH group and an OH group (0.5 mole of 2-(2-hydroxyethyl)-piperidine),
- (b) a sensitizer which absorbs radiation from the wavelength range of 250 to 450 nm of the electromagnetic spectrum (component G: 7-diethylamino-4-methylcoumarin);
- (c) a coinitiator capable of forming free radicals together with the sensitizer (b) (component I: 2,2'-bis(2-chlorophenyl)-4,4',5,5'-tetraphenyl-1,2-bisimidazole);
- (d) an alkali-soluble binder (component A: methylmethacrylate-methacrylic acid copolymer);
- (e) a chain transfer agents (component J: 2-mercaptobenzoxazole);
- (f) a surfactant (component K: Edaplan LA 411 ™); and
- (g) a solvent (components L and M: 2-butanone / propyleneglycol monomethyl ether). The radiation-sensitive composition of example 8 does not comprise a metallocene.

The subject-matter of claim 1 only differs from this known radiation-sensitive composition

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in that the sensitizer (b) is selected from (i) a 1,4-dihydropyridine derivative of formula (I) and (ii) an oxazole compound of formula (II).

The problem to be solved by the present invention may be regarded as the provision of an alternative to the radiation-sensitive composition of D1.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

1,4-dihydropyridine derivatives of formula (I) are described in document DD 287 796 A (D2) as providing the same advantages as in the present application (see claim 1; and page 2, paragraph "Ziel der Erfindung"): These compounds sensitize the photopolymerisable materials of D2 in the 310-420 nm range, said materials being used for producing printing plate precursors. The skilled person would therefore regard it as a normal option to include these 1,4-dihydropyridine sensitizers in the radiation-sensitive composition described in document D1 in order to solve the problem posed.

Dependent claims 2-13 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows: The features comprised in these claims either are disclosed in D1 or are conventional for the skilled person.

The process for the production of a radiation-sensitive element comprising the radiation-sensitive composition of claim 1 (subject-matter of present claims 14-19), and the use of said radiation-sensitive composition for producing a lithographic printing plate precursor (subject-matter of present claim 20) cannot be considered as involving an inventive step in the light of D1 and D2 (see example 8 in D1; and claim 1 in D2).

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified

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therein.